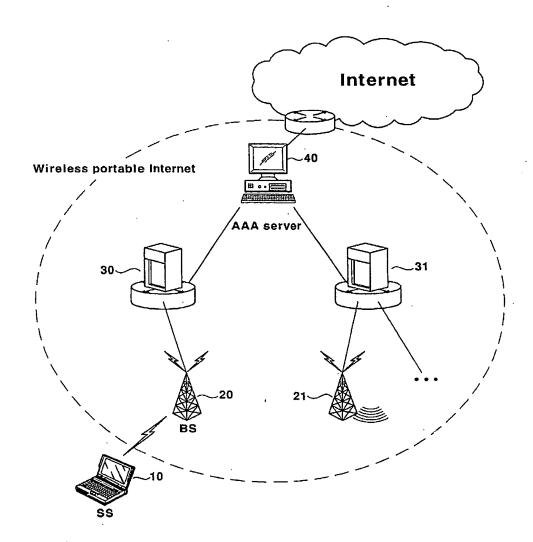
FIG. 1



WO 2005/086412 PCT/KR2005/000615

FIG. 2

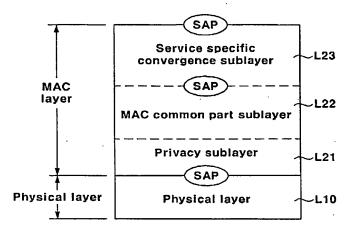
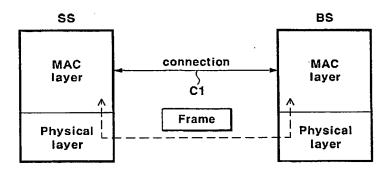


FIG. 3



WO 2005/086412 PCT/KR2005/000615

FIG. 4

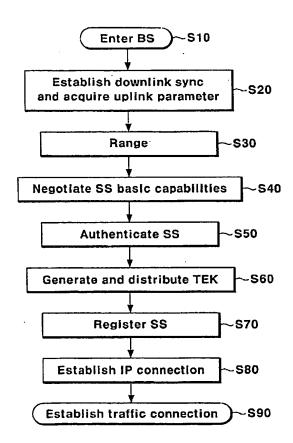
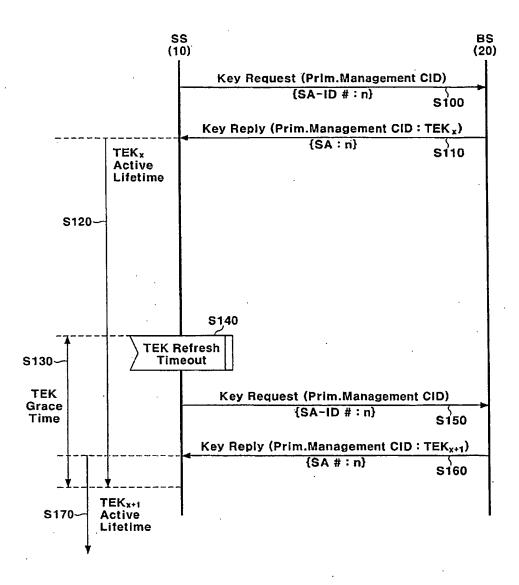


FIG. 5



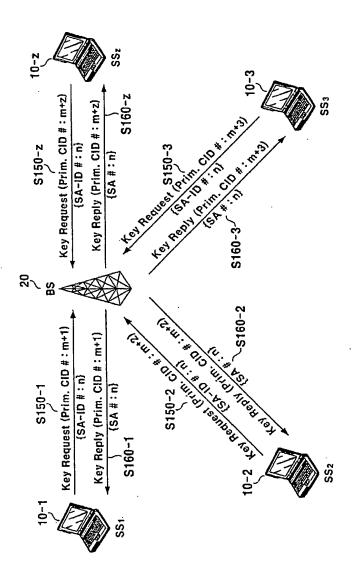


FIG. 6

System	Name	Description	Minimum value	Default value	Minimum Default Maximum value
B	M&B TEK Grace Time	M&B TEK Time prior to TEK (for the Grace Time multicast and broadcast traffic service) expiration BS begins rekeying. This time is longer than the TEK Grace Time.		Vendor- specific value	Vendor- Vendor- Specific specific value value

FIG. 8

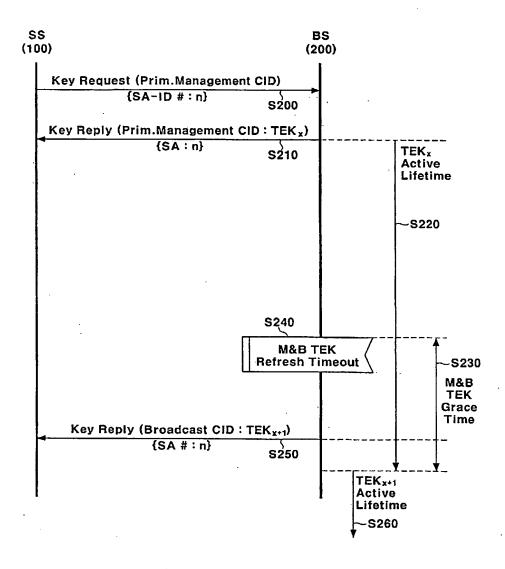
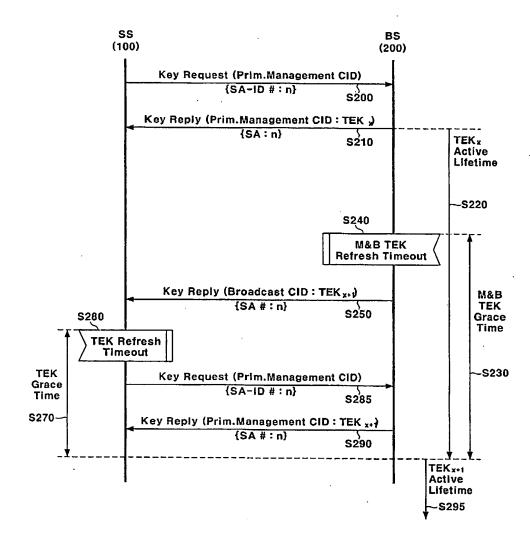


FIG. 9



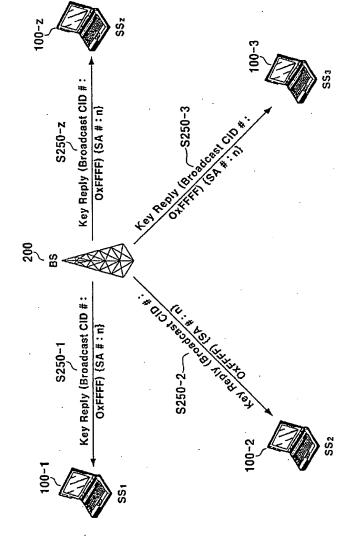
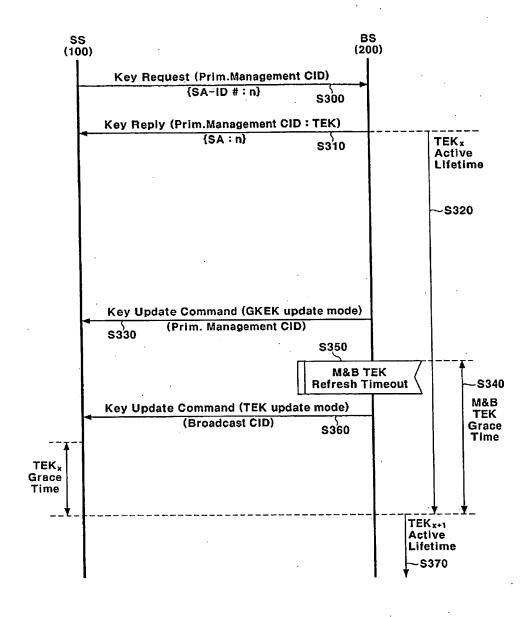


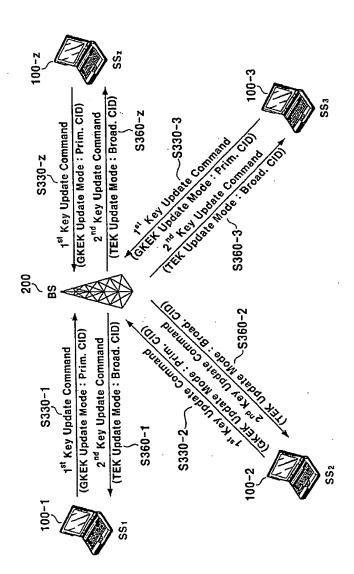
FIG. 10

FIG. 11

CID(MAC Header)	Key to encrypt the TEK
Primary Management CID	KEK(Derived from the AK)
Broadcast CID	Old distributed TEK

FIG. 12





7G. 13

Attributes	Contents
Key-Sequece-Number	Authorization Key sequence number
SAID	Security Association ID
TEK-Parameters	"Older" generation of key parameters relevant to SAID
TEK-Parameters	"Newer" generation of key parameters relevant to SAID
HMAC-Digest	Keyed SHA message digest

WO 2005/086412 PCT/KR2005/000615

FIG. 15

Attributes	Contents
GKEK	GKEK, encrypted with the AK
TEK	TEK, encrypted wity the GKEK (Multicast or Broadcast Service) or encrypted with the KEK (Unicast Service)
Key-Lifetime	TEK Remaining Lifetime
Key-Sequence-Number	TEK Sequence Number
CBC-IV	Cipher Block Chaining (CBC) Initialization Vector

	2)
7		
(•	j
;	7	_

Attributes	Contents	1 st Message (Primary)	1 st Message 2 nd Message (Primary)
Key-Sequence-Number	Authorization key sequence number	0	0
SAID	Security Association ID	0	0
Key Push Modes	Usage code of Key Update Command message	0	0
Key Push Counter	Counter one greater than that of older generation for reply attack	0	0
TEK-Parameters	"Newer" generation of key parameters relevant to SAID		
) GKEK	GKEK, encrypted with the AK	0	×
> TEK	TEK, encrypted with the GKEK (Multicast or Broadcast Service)	×	0
> Key-Lifetime	TEK Remaining Lifetime	×	0
> Key-Sequence-Number	TEK Sequnce Number	0	0
> CBS-IV	Cipher Block Chaining (CBC) Initialization Vector	×	0
HMAC-Digest	Keyed SHA message digest	0	0

FIG. 17

Type	Length	Value
30	1	0, GKEK update mode (1 st Message) 1, TEK update mode (2 nd Message) 2-225, reserved

FIG. 18

Key push modes	Input Key
GKEK update mode	AK
TEK update mode	GKEK

FIG. 19

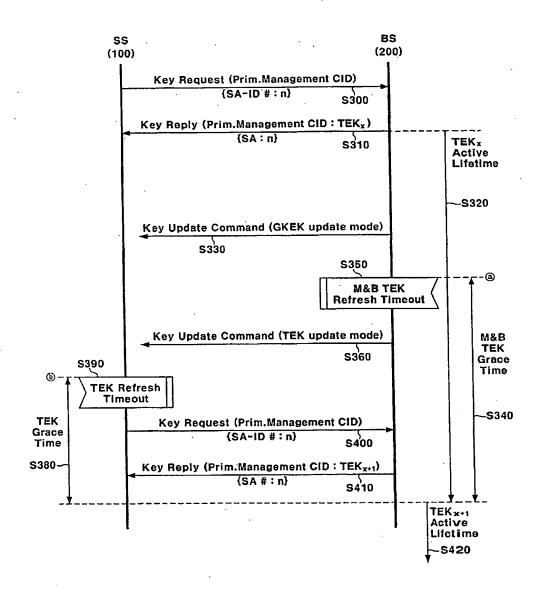


FIG. 20

Situation	Transferred TEK-parameter information
Initial TEK response (before @)	TEK-parameters c
Initial TEK response (after ®)	TEK-parameters _c & TEK-parameters _N
Initial update response (after ®)	TEK-parameters _N

 ${\bf C}: {\bf Current}$ generation of key parameters relevant to SAID

N: Next generation of key parameters relevant to SAID

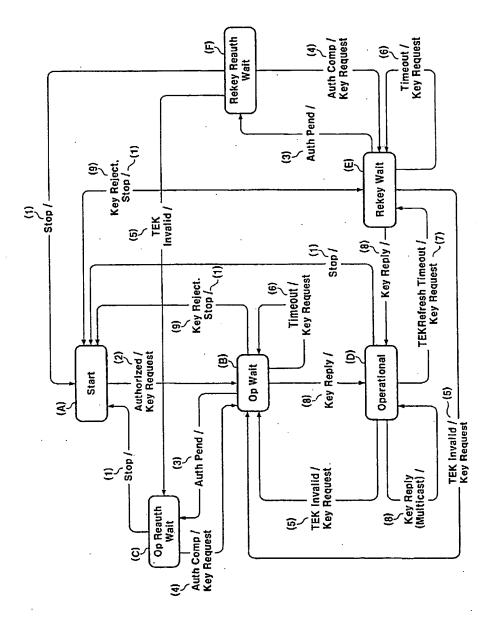


FIG. 21

[Fig. 22]

State Event or Rcvd Message (1) Stop (2) Authorized (3) Auth Pend (4) Auth Comp (5) TEK Invalid (6) Timeout (7) TEK Refresh Timeout	(B) Op Wait Start Op Reauth Wait	Op Reauth Wait Start Op Wait	Start Op Wait Noise	Rekey Wait Start Rekey Reauth Wait Op Wait	Rekey Reauth Wait Start Start Fr. Tall Rekey Wait Op Reauth Wait
(8) Key Reply	f Operational		Operational Operational	Operational	
(9) Key Reject	Start			Start	

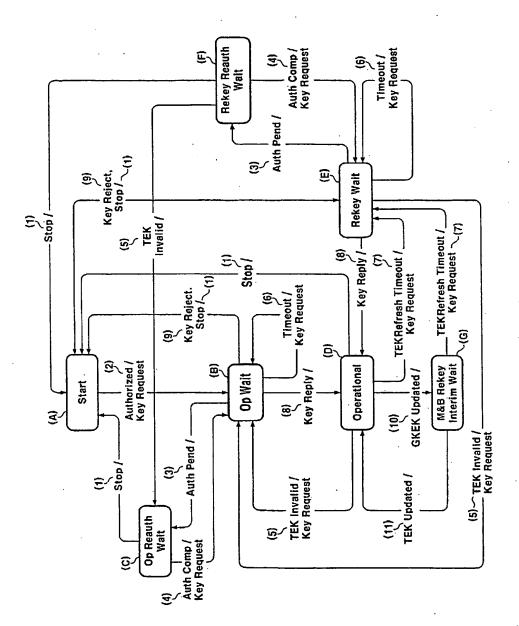


FIG. 23

[Fig. 24]

(1) Stop (2) Authorized (3) Auth Pend (4) Auth Comp (5) TEK Invalid (6) Timeout	Op Wait	Op Wait Start Op Reauth Wait Op Wait	Op Reauth Wait Start Op Wait	Start Op Wait	Rekey Wait Start Rekey Reauth Wait Op Wait Rekey	Rekey Reauth Wait Start Rekey Wait	M&B rekey Interim Wait
(7) TEK Refresh Timeout (8) Key Reply (9) Key Reject (10) GKEK Updated		Operational Start		Rekey Wait	Operational Start		Rekey Wait

This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record.

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:
BLACK BORDERS
☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
☐ FADED TEXT OR DRAWING
☐ BLURRED OR ILLEGIBLE TEXT OR DRAWING
☐ SKEWED/SLANTED IMAGES
☐ COLOR OR BLACK AND WHITE PHOTOGRAPHS
☐ GRAY SCALE DOCUMENTS
LINES OR MARKS ON ORIGINAL DOCUMENT
REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
OTHER:

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.